

Supplementary Table 1A: Patient Group A (confirmed SIH according to the IHS and with current OH^a at the time of transorbital ultrasound)

Demographic Data			Criteria of International Headache Society ¹⁰ with imaging signs of evidence of CSF leakage					
Patient's number	Age (years)	Sex	Orthos-tatic headaches	Nausea/vomiting	Subdural fluid collection	Enhancement of the pachymeninges	Sagging of the brain	Fluid collection circumscribing the spinal dural sac
1	57	f	Yes ^a	No	Yes	Yes	No	Yes
2	51	f	Yes ^a	No	No	No	Yes	Yes
3	52	m	Yes ^a	No	No	Yes	No	Yes
4	67	m	Yes ^a	No	Yes	Yes	Yes	No
5	47	f	Yes ^a	No	No	Yes	Yes	Yes
6	45	m	Yes ^a	Yes	Yes	Yes	Yes	Yes
7	60	m	Yes ^a	Yes	Yes	No	No	Yes
8	69	f	Yes ^a	No	Yes	No	No	Yes
9	75	m	Yes ^a	No	Yes	N.I.	No	Yes
10	66	f	Yes ^a	No	Yes	Yes	Yes	Yes
11	50	f	Yes ^a	No	Yes	Yes	Yes	Yes
12	42	f	Yes ^a	Yes	Yes	Yes	Yes	Yes
13	38	m	Yes ^a	Yes	No	Yes	Yes	Yes
14	27	m	Yes ^a	Yes	Yes	No	No	No
15	52	m	Yes ^a	No	No	No	No	Yes
16	49	m	Yes ^a	No	No	Yes	Yes	N.I.
17	53	m	Yes ^a	Yes	Yes	N.I.	No	No
18	34	f	Yes ^a	Yes	No	No	Yes	No
Linear Regression	P=0.76	P=0.61	P<0.01					

^a At the time of ultrasound examination these patients had current orthostatic headaches within seconds up to a maximum of a few minutes (<15min). N.I.= no imaging data available

Supplementary Table 1B: Patient Group B (confirmed SIH according to the IHS but without current OH^b at the time of transorbital ultrasound)

Demographic Data			Criteria of International Headache Society ¹⁰ with imaging signs of evidence of CSF leakage					
Patient's number	Age (years)	Sex	Orthostatic headaches	Nausea/vomiting	Subdural fluid collection	Enhancement of the pachymeninges	Sagging of the brain	Fluid collection circumscribing the spinal dural sac
1	39	f	Yes ^b	Yes	Yes	No	Yes	No
2	76	m	Yes ^b	No	Yes	Yes	No	Yes
3	57	m	Yes ^b	No	Yes	N.I.	No	No
4	70	m	Yes ^b	No	Yes	No	No	No
5	39	m	Yes ^b	No	No	No	Yes	No
6	80	f	Yes ^b	No	No	Yes	No	No
7	54	m	Yes ^b	No	Yes	No	No	No
8	59	m	Yes ^b	No	Yes	Yes	No	No
9	58	f	Yes ^b	No	Yes	No	No	No
10	53	f	Yes ^b	No	Yes	No	No	No
11	72	m	Yes ^b	No	Yes	No	No	Yes
12	44	f	Yes ^b	No	Yes	No	No	No
13	67	f	Yes ^b	No	Yes	No	No	No
14	76	f	Yes ^b	No	Yes	No	No	No
15	70	f	Yes ^b	No	Yes	No	No	No
16	83	m	Yes ^b	No	Yes	N.I.	N.I.	N.I.
17	79	m	Yes ^b	No	Yes	No	No	No
18	60	m	Yes ^b	No	Yes	No	No	No
19	69	f	Yes ^b	No	Yes	N.I.	N.I.	N.I.
20	74	m	Yes ^b	No	Yes	No	No	No
21	49	f	Yes ^b	No	Yes	No	No	No
Linear Regression	P=0.76	P=0.61	P<0.01					

^b At the time of ultrasound examination (dynamic sonographic, two-fold assessment of ONSD) these patients did not develop OH within seconds or minutes (<15min). However, all of them had OH that developed either after 15 min, or had a history (<4 weeks) of OH that developed <15 min. N.I.= no imaging data available

Supplementary Table 1 caption: Demographic and clinical characteristics of patients with confirmed SIH according to the International Headache Society.^{2,3} The presence of other factors that might have influenced the occurrence of significant change in ONSD was explored by performing linear regression analysis (last line). The variables age, body position, and sex were added in a stepwise fashion. Results of the linear regression model indicated that the only significant factor influencing the ONSD was the presence of orthostatic headaches ($P < 0.01$). Imaging findings included subdural fluid collections, enhancement of the pachymeninges, sagging of the brain, or a fluid collection circumscribing the spinal dural sac in T2 weighted MRI.

Supplementary Table 2 title: Diameter of optic nerve sheath in patients with SIH (Groups A and B) compared to the normal collective (Groups C1 and C2)

Postural headaches		N	Mean	Std. Dev.	Min.	Max.	95% Confidence Interval for Mean	
							Lower Bound	Upper Bound
supine position	yes (A)	18	5.38	0.91	3.91	6.84	4.92	5.83
	no (B)	21	5.48	0.89	4.10	7.02	5.06	5.89
	control (C1)	20	4.92	0.50	3.94	5.64	4.69	5.16
	external_control (C2)	19	5.15	0.59	4.25	6.70	4.87	5.43
upright position	yes (A)	18	4.84	0.95	3.03	6.59	4.37	5.31
	no (B)	21	5.53	1.02	3.83	7.19	5.07	6.00
	control (C1)	20	4.99	0.50	4.19	5.77	4.76	5.23
	external_control (C2)	19	5.10	0.68	4.30	6.60	4.77	5.43

Supplementary Table 2 caption: The mean diameter of the optic nerve sheath in patients with OH and confirmed SIH (Group A), without OH and confirmed SIH (Group B), as well in a normal collective (Groups C1 and C2) are shown.

Supplementary Table 3 title: Difference in optic nerve sheath diameter between supine and upright position (mm)

Postural Headaches	N	Mean	Std. Dev.	Min.	Max.	95% Confidence Interval for Mean	
						Lower Bound	Upper Bound
yes (A)	18	-0.53	0.34	-1.13	0.15	-0.70	-0.36
no (B)	21	0.06	0.41	-0.64	1.01	-0.13	0.24
control (C1)	20	0.07	0.20	-0.34	0.36	-0.02	0.16
external_control (C2)	19	-0.05	0.51	-1.45	0.80	-0.29	0.20

Supplementary Table 3 caption: The difference (Δ) in ONSDs between supine and upright positions in patients with OH and confirmed SIH (Group A), without OH and confirmed SIH (Group B), as well in a normal collective (Groups C1 and C2) are shown.